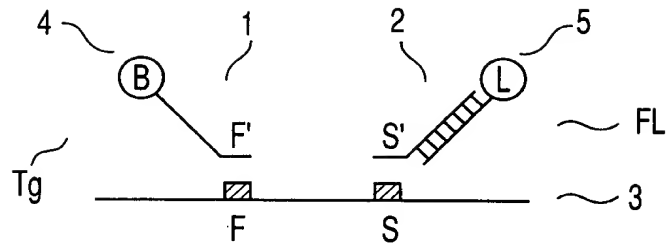
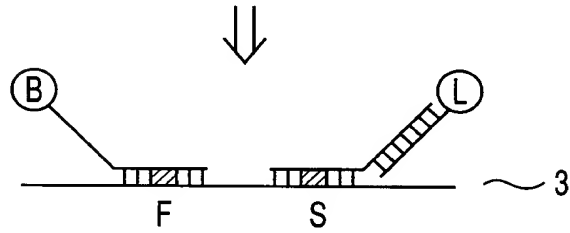


FIG. 1

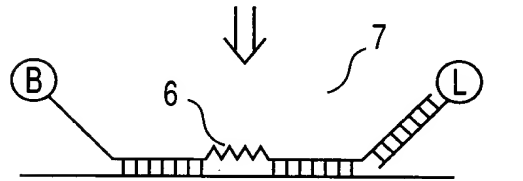
(a) Mixing



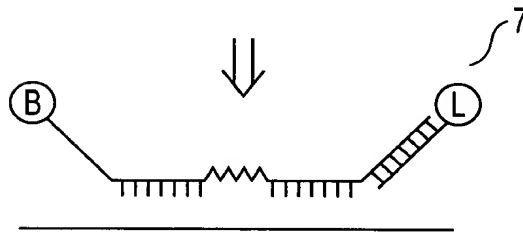
(b) Hybridization



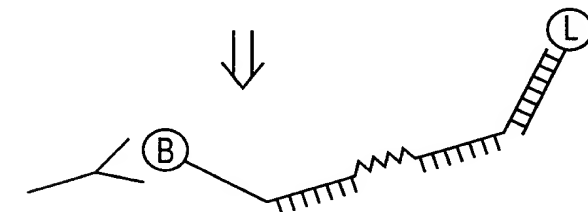
(c) ligation



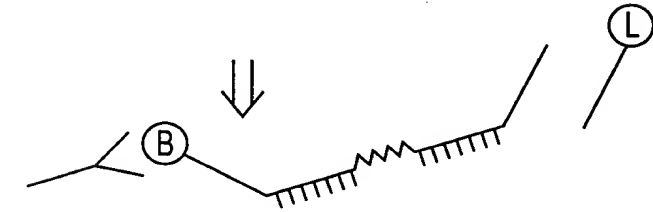
(d) Denaturation



(e) Recovering



(f) Recovering a label



(g) Detection of a label

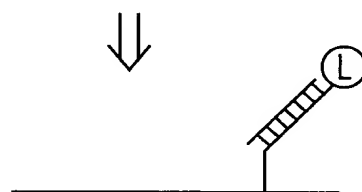
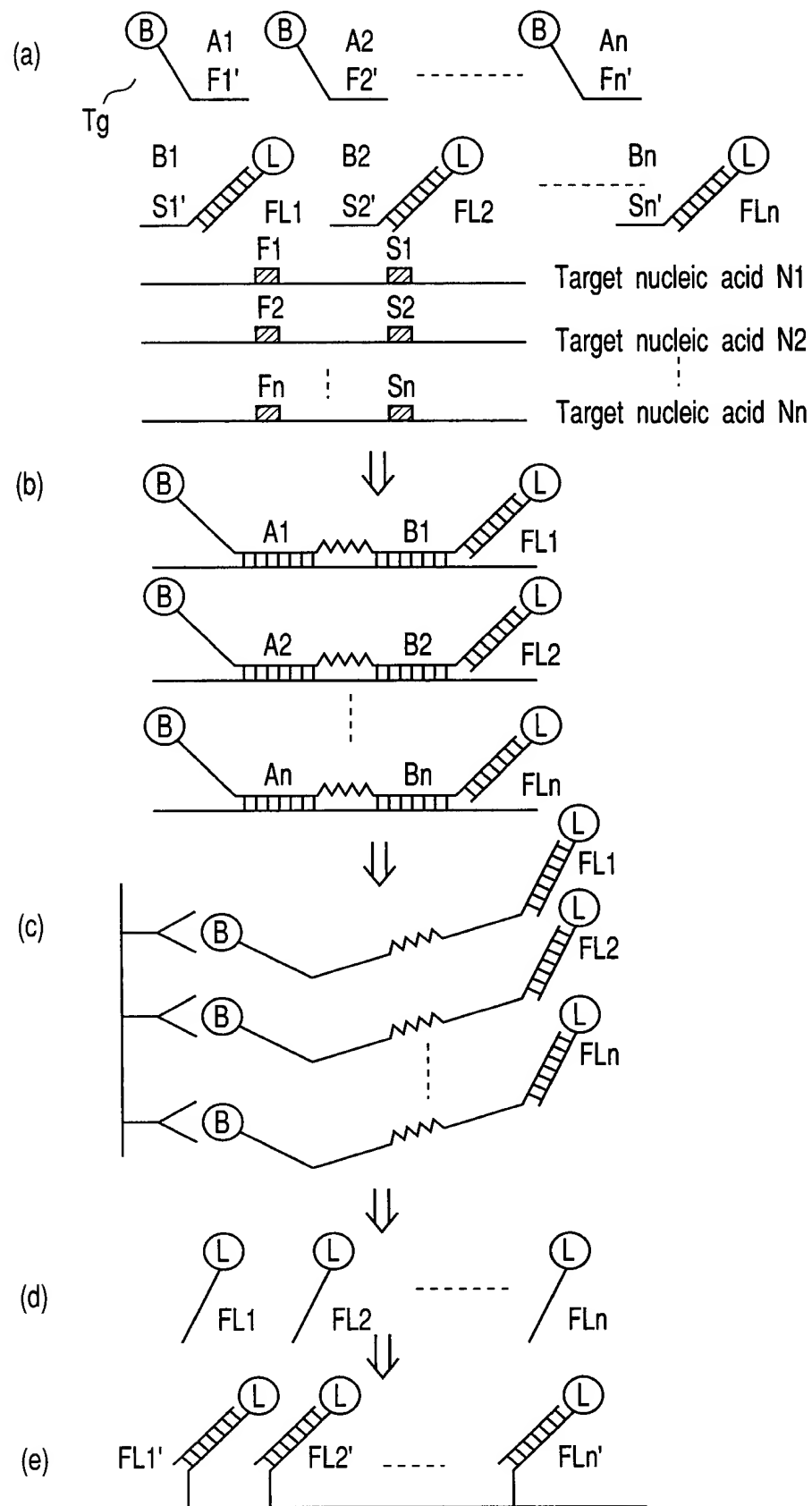
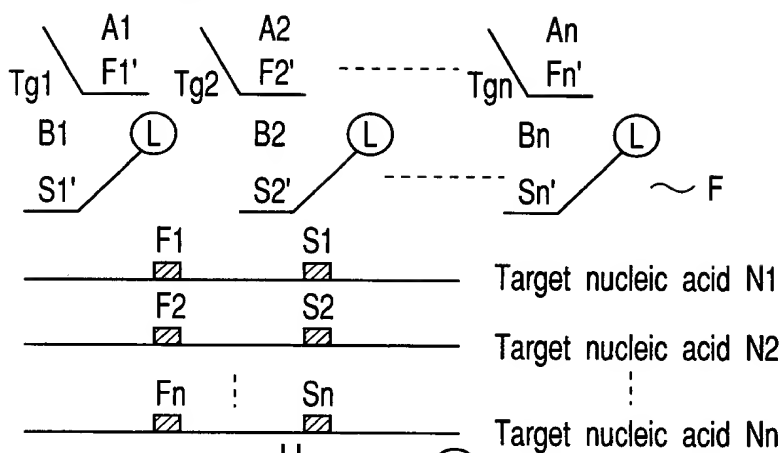


FIG. 2



(a)

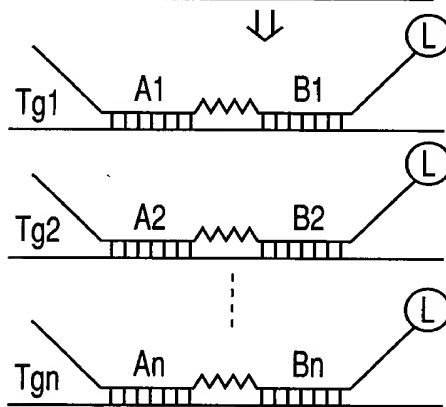


Target nucleic acid N1

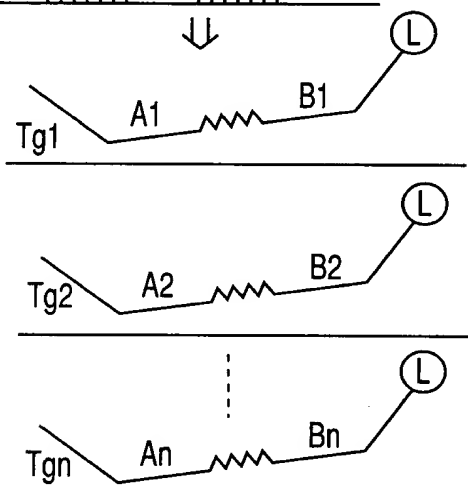
Target nucleic acid N2

Target nucleic acid Nn

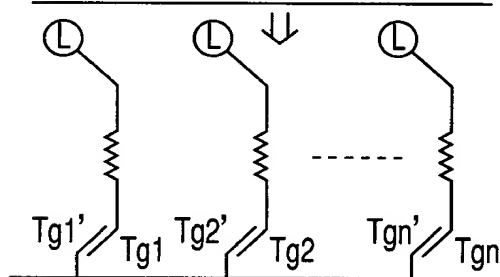
(b)



(C)



(d)



(e)

Detection or quantification of marker substance

FIG. 4

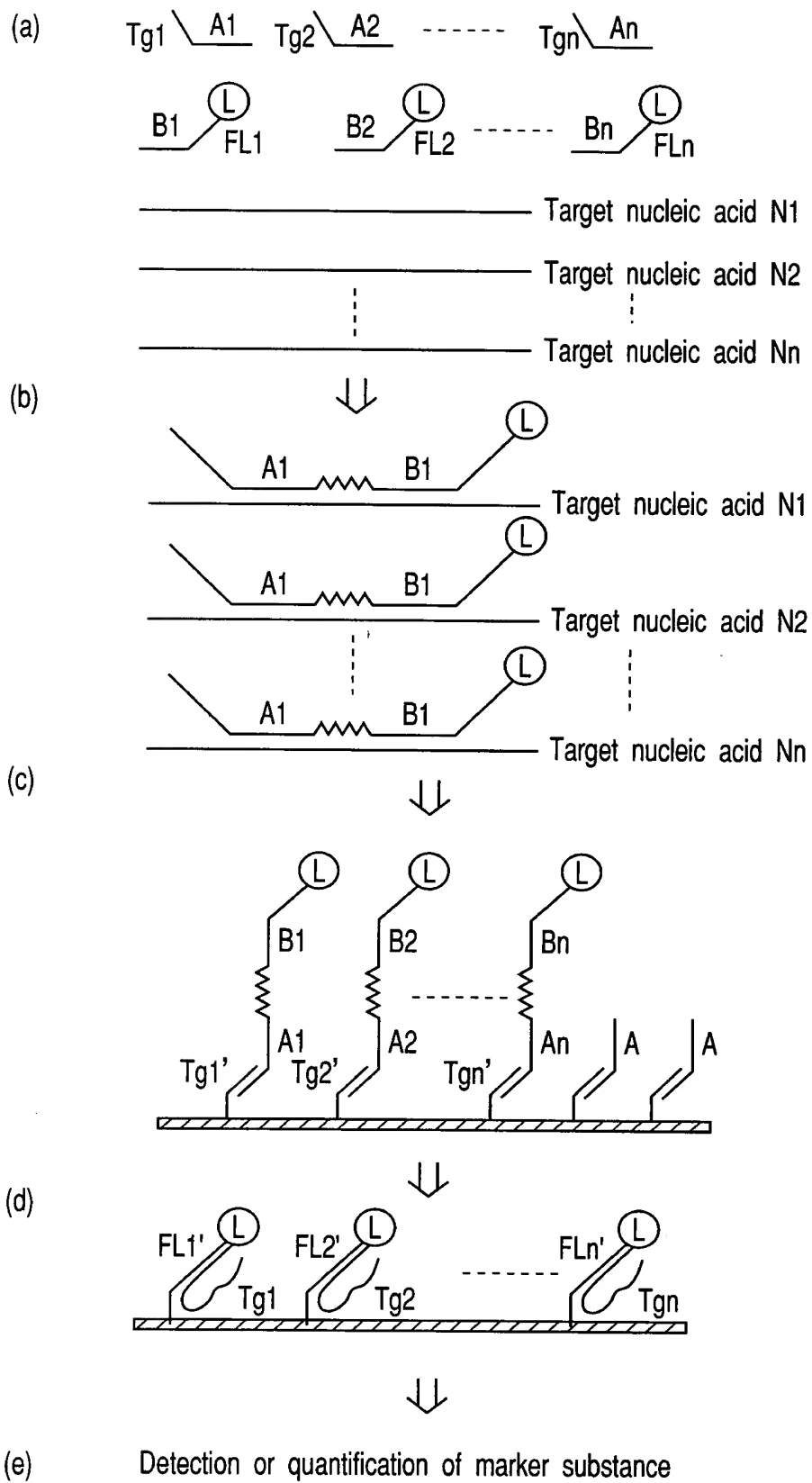
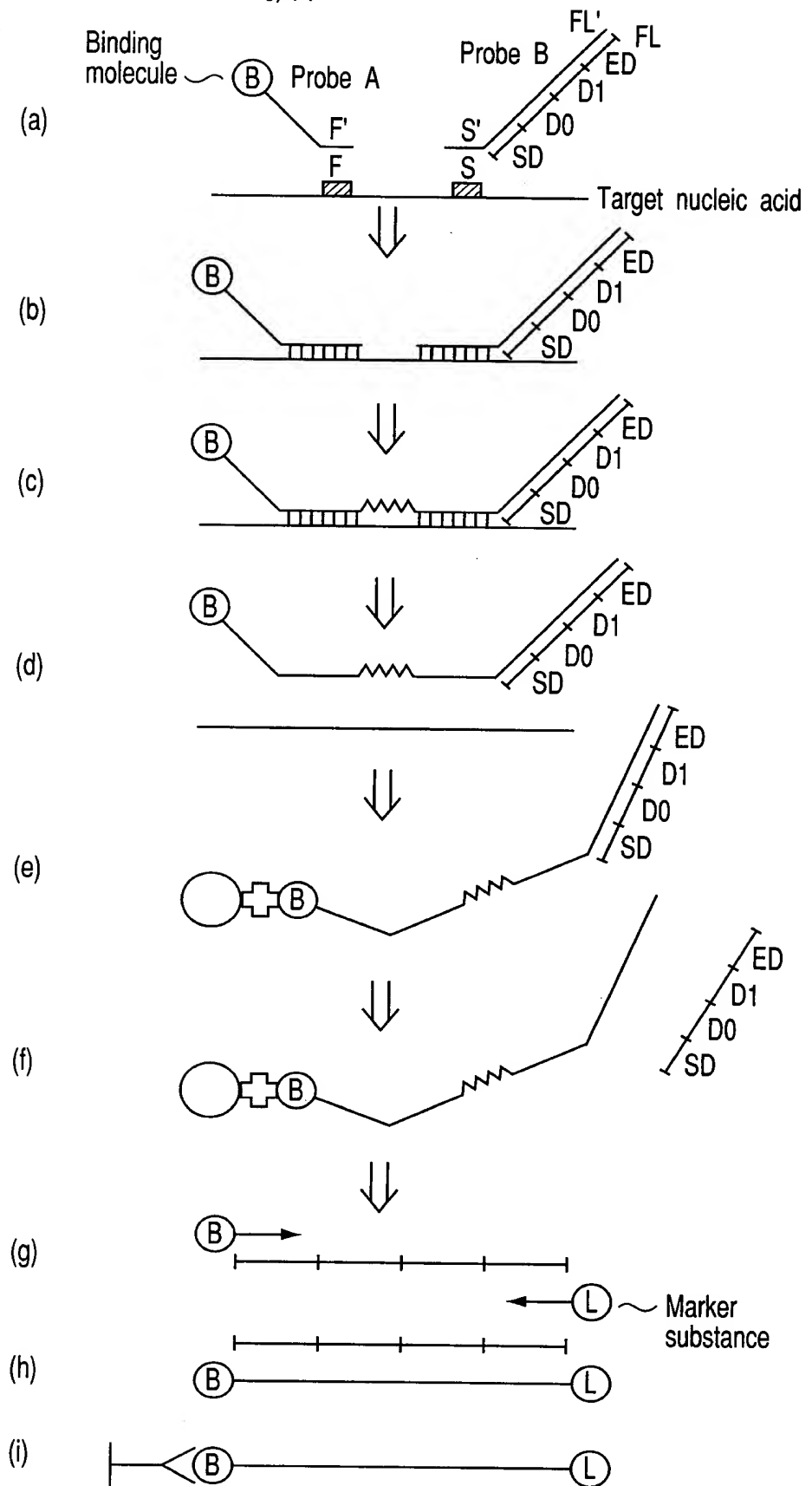


FIG. 5





		D0									
		D0-1	D0-2	D0-3	D0-4	D0-5	D0-6	D0-7	D0-8	D0-9	D0-10
D1	D1-1	1									
	D1-2										
	D1-3										
	D1-4										
	D1-5										
	D1-6										
	D1-7										
	D1-8										
	D1-9										
	D1-10										

FIG. 7A

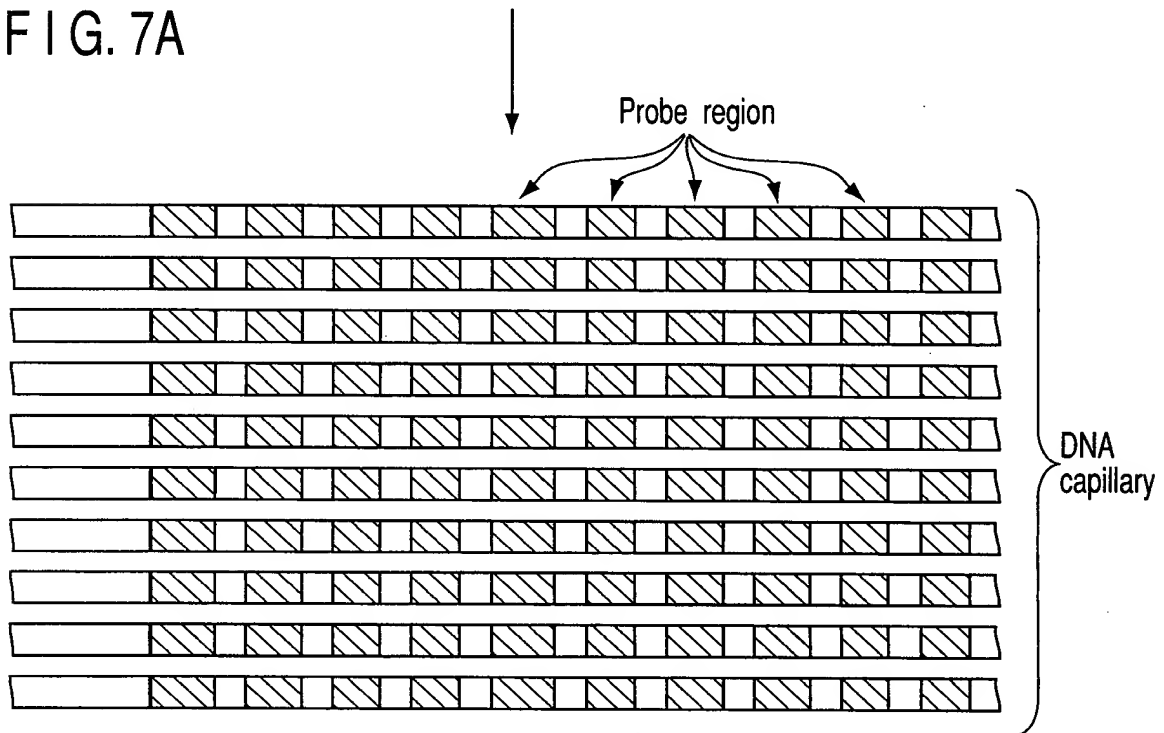


FIG. 7B

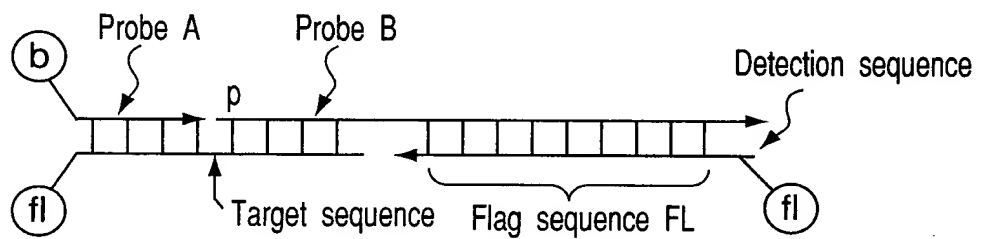


FIG. 8

FIG. 9

	Mame	Sequence (5'→3')
Probe A	b-16A : b-CTAgTAGggTgAAgTC	
Probe B	P-16B-48 : P-CATAAgAgCCCTAgAgCATgCTggTCAAggggCACgCggTTCATCAGgAgTCgAAggCAGgACg	
Target sequence	r-32-fl : CTCTAgggCTCTTATggACTTCACCCCTACTAg-fl	
Detection sequence	fl-r-48 : fl-CgTCCTgCCCTTCgACTCCTgATgAACCCgCgTgCCCCCTgACCAgCATg	
Mutation sequence	fl-neg-r-32AB : fl-TTCTAgAgCTCCTATggACTTCGCCCTACTAg	

The graph displays the fluorescence signal (RFU) over time. The y-axis ranges from 0 to 3, and the x-axis ranges from 20 to 35 minutes. The signal remains low until about 24.5 minutes, where a peak labeled 'Detection sequence' occurs. A much larger peak labeled 'Hot washing' is observed at approximately 29.5 minutes. Following this peak, the signal returns to the baseline level by 30 minutes and remains stable until 35 minutes.

FIG. 10

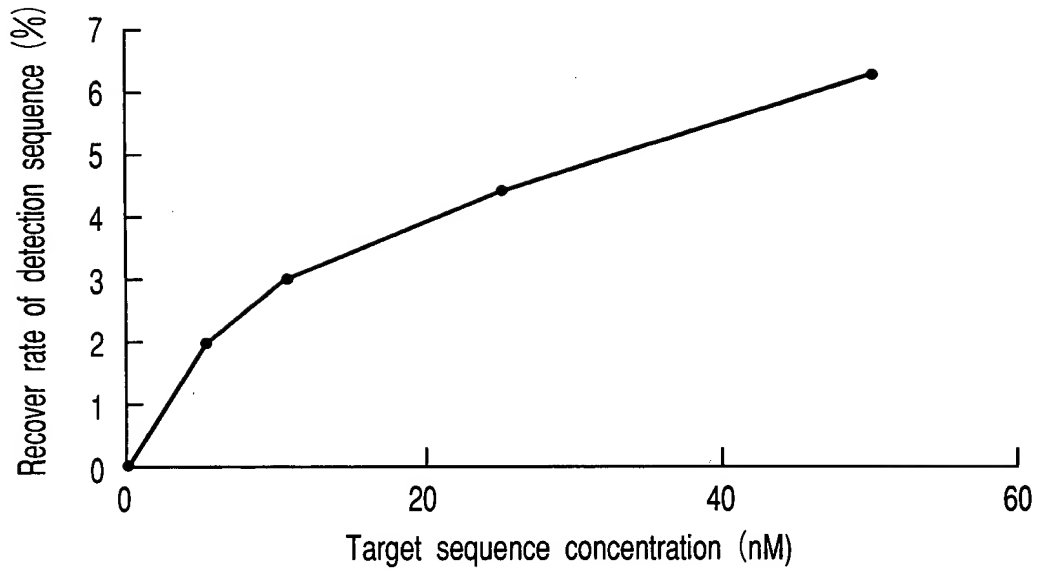


FIG. 11

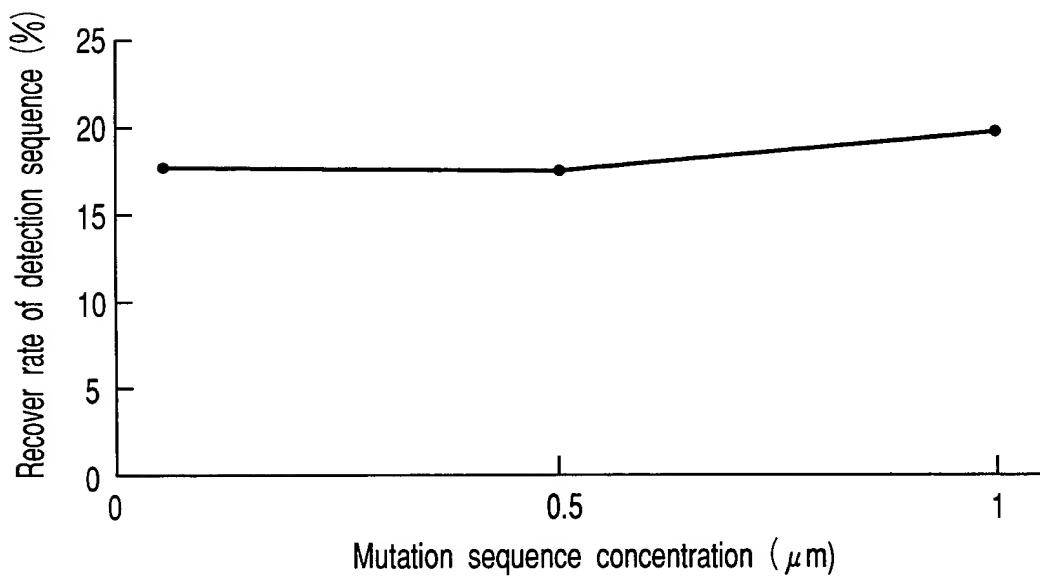


FIG. 12

Nucleotide sequence used in evaluation experiment

$$F_{IGTP+S_{IGTP}}$$

5'-TCCTATATTCAACTgTAATAgCCGgTTCCCT-3'
(Mouse γ -derived GTPase family gene, IGTP)

FLRG-47+SLRG-47

5'-ATTTTCCTCTgAAACAATAAAGTCggTTCC-3'
(Mouse γ -derived GTPase family gene, LRG-47)

Probe A

F_iGTP

F' LRG-47

Probe B

S'IGTP

S'LRG-47

SD
5'-TqAAgTCACCACAACACACAgTACA-3'

ED
5'-TCTCAgTCCCAgTCCATTTCCTTAC-3'

D0_{IGTP}=0

D0₁ BG-17=1 5'-T_qAACCCCAAgTTTAgATCTCAgC-3'

D1_{|GTP=D1_{|RG-47=1}} 5'-gACAACACCCCGAATACAACAgC-3'

D1_{IGTP=D1} | BG-47=1 5'-qACAAACACCCCGAATACAACAgC-3'

D1_{IGTP=D1} | BG-47=1 5'-qACAAACACCCCGAATACAACAgC-3'

FIG. 13A

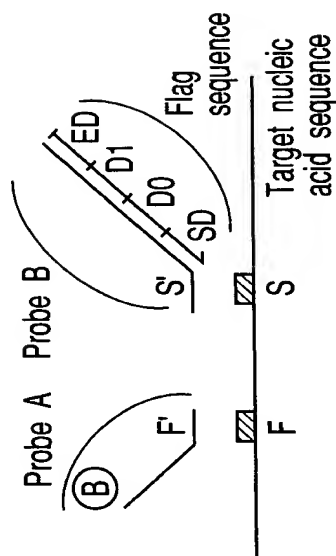


FIG. 13B

FIG. 14A

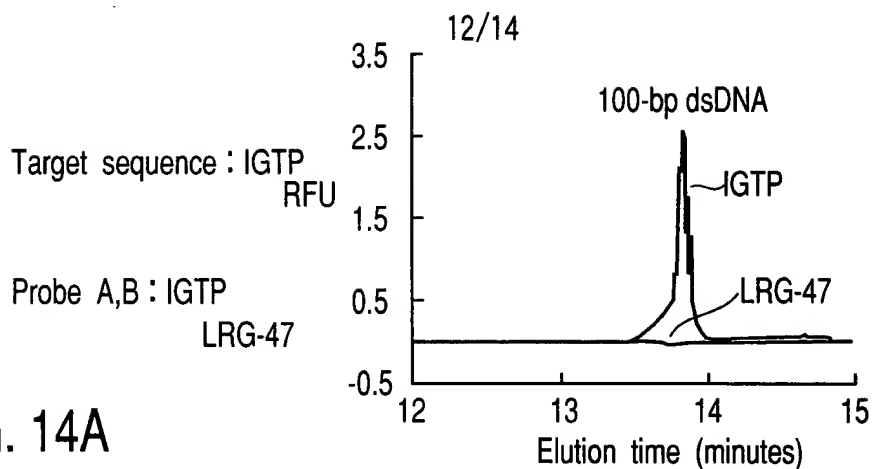


FIG. 14B

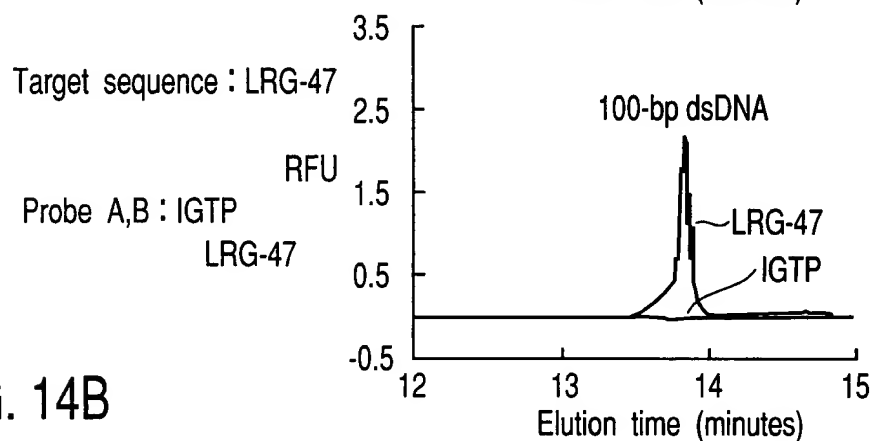
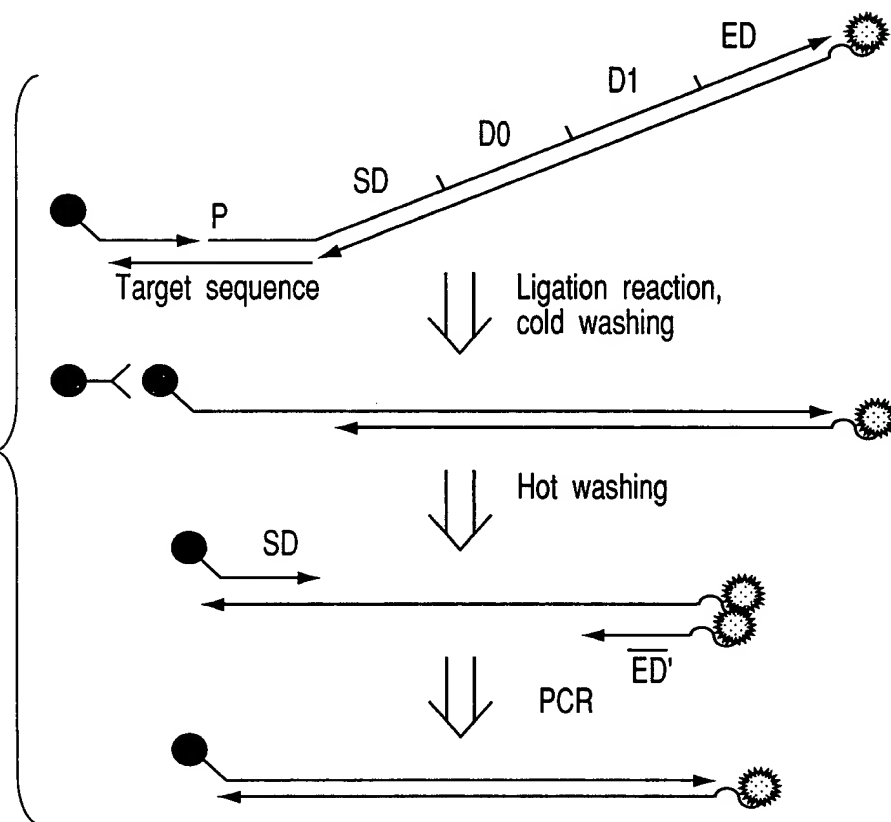
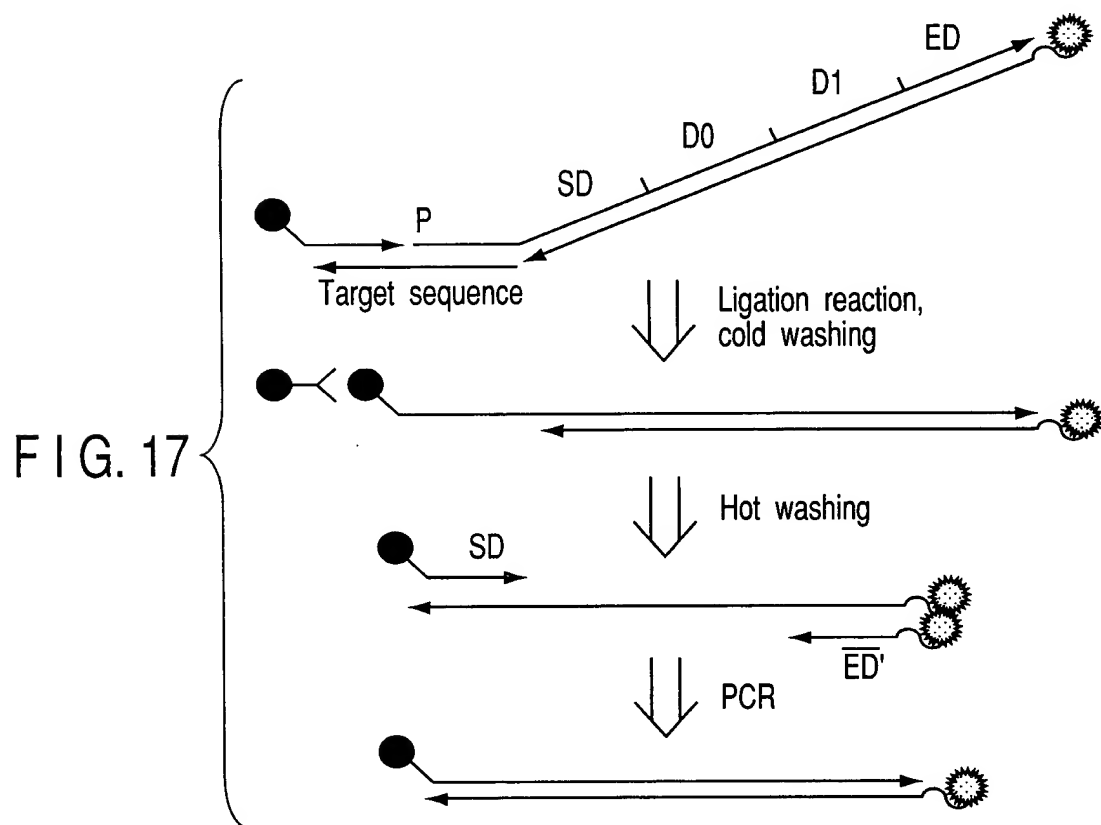


FIG. 15





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